

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number  
**WO 2005/010462 A1**

(51) International Patent Classification<sup>7</sup>: **G01B 11/16**,  
G02B 6/36

(21) International Application Number:  
PCT/KR2004/001842

(22) International Filing Date: 23 July 2004 (23.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10-2003-0050812 24 July 2003 (24.07.2003) KR

(71) Applicant and

(72) Inventor: LEE, Geum-Suk [KR/KR]; Seongju4-beonji,  
Seongju-myeon, Boryeong-si, Chungcheongnam-do  
355-910 (KR).

(74) Agent: JIN, Yong-Suk; 513, Cheongsu Office Building,  
915, Dunsan-dong, Seo-gu, Daejeon 302-120 (KR).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

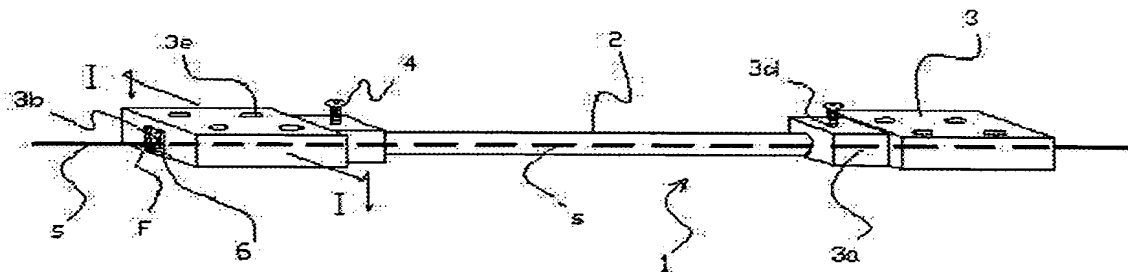
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: FIXER FOR FIBER BRAGG GRATING SENSOR



(57) Abstract: There is provided a fixer for a fiber bragg grating (FBG) sensor, by which the FBG can be installed by any person to provide the FBG sensor with an accurate value, irrespective of a place to be installed, and the FBG sensor can be semi-permanently fixed and protected. The fixer includes a pair of fixing pieces 3 with a bottom surface adhered to the object, in which both ends of the FBG sensor S is inserted and adhered by an adhesive F, a tube 2 for spacing the pair of fixing pieces at regular intervals, in which the FBG sensor S is inserted into a hollow portion of the tube to protect the FBG sensor S from the exterior, and a member for fixing the fixing pieces 3 and the pipe 2, without producing an error of above 0.0002 mm.